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OFFICIAL JOURNAL
OF THE
PLANT VARIETY
PROTECTION OFFICE



PREFACE

The Plant Variety Protection Act, (7 U.S.C. 2321 et. seq.) authorizes the Secretary of Agriculture to publish an Official Journal and to provide the public with pertinent information relating to the operations of the Plant Variety Protection Office.

The statute also authorizes the Secretary to disseminate technological and other information available to the Office that would encourage innovation and promote progress in plant breeding.

The Official Journal, which is published quarterly, includes instructions issued by the Office and related information. It will be sent free to anyone on request. Send requests to:

Plant Variety Protection Office
Grain & Seed Division, AMS
U.S. Department of Agriculture
Room 301, National Agricultural Library
Beltsville, Maryland 20705

This issue covers the period from October 1, 1976, through December 31, 1976.

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APPLICATIONS RECEIVED

| Application No. | Date | Name of applicant(s) | Name of kind | Name of variety (or designation) |
|-----------------|----------|--|--------------|----------------------------------|
| 7700001 | 10/4/76 | Reza Kavianian | muskmelon | Kavamelon |
| 7700002 | 10/12/76 | Pioneer Hi-Bred International, Inc. | soybean | 118-11 |
| **7700003 | 10/22/76 | Western Plant Breeders | barley | Gus (3) |
| **7700004 | 10/22/76 | Western Plant Breeders | barley | Reliance (3) |
| 7700005 | 10/29/76 | L. D. Maffei Seed Company, Inc. | lima bean | Maffei 676 |
| 7700006 | 10/29/76 | Asgrow Seed Company | soybean | A2444 |
| 7700007 | 10/29/76 | Asgrow Seed Company | soybean | A1564 |
| **7700008 | 10/29/76 | Northrup, King and Company | barley | Kombyne (3) |
| 7700009 | 11/5/76 | Asgrow Seed Company | pea | Frisky |
| 7700010 | 11/5/76 | Asgrow Seed Company | pea | XP-C63 |
| 7700011 | 11/8/76 | Asgrow Seed Company | pea | Gypsy |
| **7700012 | 11/2/76 | (Permission to publish not rec'd.) A. A. Willis | rice | Gebolla II (1) |
| 7700013 | 11/24/76 | Northrup, King and Company | clover | Florex |
| 7700014 | 11/26/76 | Asgrow Seed Company | pea | Sybo |
| 7700015 | 11/26/76 | Zelder BV | fescue | Frida |
| **7700016 | 11/30/76 | Soil Fertility Dunns Ltd. | ryegrass | Deltop (2) |
| **7700017 | 11/30/76 | Soil Fertility Dunns Ltd. | ryegrass | Deltonic (2) |
| **7700018 | 12/20/76 | G and P Seed Company, Inc. | cotton | GP3774 (3) |
| **7700019 | 12/20/76 | G and P Seed Company, Inc. | cotton | GP3755 (3) |
| 7700020 | 12/20/76 | Asgrow Seed Company | pea | XP-C93 |
| 7700021 | 12/27/76 | (Permission to publish not rec'd.) | safflower | S-317 |
| 7700022 | 12/28/76 | Pure Line Seeds, Inc. | pea | Freezer 47 |
| 7700023 | 12/28/76 | Pure Line Seeds, Inc. | pea | Freezer 50 |

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate
No.

Issue Date

Owner

Name of Kind

Name of Variety

**7100110

Oct. 27, 1976

R. J. Reynolds Tobacco Co.

peanut

'Avoca-11' (3)

'Avoca-11' is most similar to 'NC-2' except 'Avoca-11' matures 7-10 days later.

**7200022

Oct. 27, 1976

Coker's Pedigreed Seed Co.

tobacco

'Coker 347' (2)

'Coker 347' most closely resembles 'Coker 319' and 'Coker 411' but 'Coker 347' is resistant to root knot nematode; whereas, 'Coker 319' and 'Coker 411' are susceptible.

**7200023

Oct. 27, 1976

Coker's Pedigreed Seed Co.

tobacco

'Coker 411' (2)

'Coker 411' most closely resembles 'Coker 319' and 'Coker 347.' 'Coker 411' is resistant to black shank; whereas, 'Coker 319' is susceptible. 'Coker 411' is susceptible to root-knot nematode; whereas, 'Coker 347' is resistant.

**7200136

Oct. 27, 1976

Wisconsin Agricultural
Experiment Station

oat

'Dal' (3)

'Dal' most closely resembles 'Goodland,' but the seeds of 'Dal' are nonfluorescent under U.V. light and have few basal hairs; whereas, the seeds of 'Goodland' are fluorescent and have no basal hairs. 'Dal' is also taller with more resistance to crown rust and barley yellow dwarf virus.

**7500004

Oct. 27, 1976

Wisconsin Agricultural
Experiment Station

oat

'Goodland' (3)

'Goodland' most closely resembles 'Dal' but the seeds of 'Goodland' lack basal hairs and are fluorescent under U.V. light; whereas, the seeds of 'Dal' have few basal hairs and are non-fluorescent. 'Goodland' is also shorter, with shorter, narrow panicles and less resistance to barley yellow dwarf virus.

**7500062

Oct. 27, 1976

Florida Foundation Seed
Producers, Inc.

peanut

'Early Bunch' (4)

'Early Bunch' is a Virginia bunch type, most similar to 'NC-FLA 14' and 'NC-5,' but differs in that the angle of the branches and shelling percent (74 vs. 70) is greater in 'Early Bunch' than in 'NC-FLA 14.' 'Early Bunch differs from 'NC-5' in that the iodine value is greater in 'Early Bunch' (99 vs. 94).

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

| <u>Certificate No.</u> | <u>Issue Date</u> | <u>Owner</u> | <u>Name of Kind</u> | <u>Name of Variety</u> |
|---|-------------------|---|---------------------|------------------------|
| **7600004 | Oct. 27, 1976 | Coker's Pedigreed Seed Co. | tobacco | 'Coker 86' (2) |
| <p>'Coker 86,' 'Va 770,' 'SC 71' and 'SC 72' are the only flue-cured tobacco varieties that exhibit resistance to tobacco mosaic virus. 'Coker 86' has high resistance to black shank and fusarium wilt; whereas, 'Va 770' is susceptible. 'Coker 86' is resistant to root-knot nematodes but 'SC 71' is susceptible. 'Coker 86' is 2 days later in maturity (65 vs. 63) and is 7.62 cm taller (104.14 vs. 96.52) than 'SC 72.'</p> | | | | |
| 7600012 | Oct. 27, 1976 | Idaho Seed Bean Company | bean | 'Grand Canyon' |
| <p>'Grand Canyon' most closely resembles 'Canyon' but 'Grand Canyon' reaches processing maturity 2 days earlier than 'Canyon,' 'Grand Canyon' averages approximately 6 cm shorter in height than 'Canyon,' and the pod spur of 'Grand Canyon' is approximately 3 mm longer than 'Canyon.'</p> | | | | |
| **7600036 | Oct. 27, 1976 | Wisconsin Agricultural Experiment Station | oat | 'Wright' (3) |
| <p>'Wright' most closely resembles 'Beedee' but 'Wright' differs from 'Beedee' by having 6 cm greater height, less lodging, and more resistance to both crown rust and the "Lodi" race of loose smut.</p> | | | | |
| **7400058 | Oct. 29, 1976 | Coker's Pedigreed Seed Company | soybean | 'Coker 338' (3) |
| <p>'Coker 338' has the novel combination of white flowers, tawny pubescence, brown pod, and resistance to bacterial pustule.</p> | | | | |
| **7500023 | Oct. 29, 1976 | Research Corporation | barley | 'Wapana' (3) |
| <p>'Wapana' is most similar to 'Compana' but 'Wapana' has a waxy endosperm and 'Compana' does not.</p> | | | | |
| **7500039 | Oct. 29, 1976 | Ardie G. Gustafson | pea | 'Conner' (3) |
| <p>'Conner' most closely resembles 'Valley Perfection' except that 'Conner' is 20 cm shorter, is resistant to fusarium wilt race 5 and tolerant to top yellows. 'Valley Perfection' is susceptible to these diseases. ** To be sold by variety name only as a class of certified seed. () No. of generations of certified seed permitted beyond breeder's seed.</p> | | | | |

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|---|-------------------|-------------------------------------|---------------------|--------------------------|
| 7500074 | Oct. 29, 1976 | Asgrow Seed Company | pea | 'Deli' |
| 'Deli' is the Alsweet type. 'Deli' differs from other varieties of the "Alsweet" type by being double podded instead of single podded. | | | | |
| 7500075 | Oct. 29, 1976 | Asgrow Seed Company | pea | 'Rally' |
| 'Rally' most closely resembles 'Dart' but 'Rally' seed weigh 31 gm. less per 1,000 seed than 'Dart.' | | | | |
| **7500084 | Oct. 29, 1976 | Pioneer Hi-Bred International, Inc. | cotton | 'Lockett 77' (3) |
| 'Lockett 77' is most similar to 'Lockett 4789A,' except 'Lockett 77' is resistant to bacterial blight races 1, 2, 7, and 10, and the fusarium wilt-nematode complex, and tolerant to verticillium wilt; whereas, 'Lockett 4789A' is susceptible to all of these diseases. | | | | |
| 7500090 | Oct. 29, 1976 | Canners Seed Corporation | pea | '#8617 Early Perfection' |
| '#8617 Early Perfection' most closely resembles '#3040 Early Perfection' but '#8617 Early Perfection' is resistant to powdery mildew while '#3040 Early Perfection' is susceptible. | | | | |
| 7600003 | Oct. 29, 1976 | Quali-Sel, Inc. | lettuce | 'Domingos 43' |
| 'Domingos 43' most closely resembles 'Vanguard' but differs by being larger in the following dimensions: core height - 4.7 cm vs. 2.8 cm, core diameter - 3.8 cm vs. 3.3 cm, frame diameter - 47.1 cm vs. 44.3 cm, head diameter - 14.4 cm vs. 12.5 cm. | | | | |
| 7600013 | Oct. 29, 1976 | Canners Seed Corporation | pea | '#7025 Early Sweet' |
| '#7025 Early Sweet' most closely resembles 'Albred' but differs by having straight internodes and resistance to root rot; whereas, 'Albred' has zigzag internodes and is susceptible to root rot. | | | | |

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|---|---------------|---|--------------------|--------------------------|
| **7600046 | Oct. 29, 1976 | Seed Research Associates, Inc. | wheat | '5411' (3) |
| '5411' is most similar to 'Plainsman V.' '5411' is one day later blooming and 7 cm taller than 'Plainsman V.' | | | | |
| **7600065 | Oct. 29, 1976 | Pioneer Hi-Bred International, Inc. | wheat | 'S76' (3) |
| 'S76' most closely resembles 'Hart.' 'S76' differs from 'Hart' by having a white coleoptile and being susceptible to loose smut. 'Hart' has a purple coleoptile and is resistant to loose smut. | | | | |
| **7200103 | Nov. 18, 1976 | Purdue University Agricultural Experiment Station & ARS, USDA | barley | 'Paoli' (3) |
| 'Paoli' is most like 'Pike' in most characters. 'Paoli' is distinct from 'Pike' in being 4 days later in flowering. 'Paoli' is resistant to rhynchosporium scald and to loose smut; whereas, 'Pike' is susceptible to both diseases. The neck of 'Paoli' is straight; whereas, that of 'Pike' is snakey. | | | | |
| **7300059 | Nov. 18, 1976 | Mississippi Agricultural & Forestry Experiment Station | cowpea | 'Mississippi Purple' (3) |
| 'Mississippi Purple' is most similar to 'Mississippi Silver' except 'Mississippi Purple' has pods which are reddish-purple at green maturity stage and dark purple when dry. The pods of 'Mississippi Silver' are silver splashed with rose at green maturity stage and straw color when dry. The stem and nodes of 'Mississippi Purple' are purple mixed with green; whereas, those of 'Mississippi Silver' are green. | | | | |
| 7500009 | Nov. 18, 1976 | International Seeds, Inc. | perennial ryegrass | 'Derby' |
| 'Derby' most closely resembles the cultivar 'Pennfine' and to a lesser extent 'Manhattan.' 'Derby' has darker green color and more cold tolerance than 'Pennfine.' 'Derby' produces a less dense turf than 'Manhattan' and 'Pennfine.' 'Derby' is 17 days earlier than 'Manhattan.' | | | | |

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|--|---------------|---|--------------|-----------------|
| **7600002 | Nov. 18, 1976 | Purdue University Agricultural Experiment Station & ARS, USDA | barley | 'Pike' (3) |
| 'Pike' is most similar to 'Paoli' except that 'Pike' averages 4 days earlier in heading than 'Paoli'. 'Pike' has a moderately snakey neck, and is susceptible to rhynchosporium scald and loose smut; whereas, 'Paoli' has a straight neck and is resistant to scald and loose smut. | | | | |
| 76000034 | Nov. 18, 1976 | Denholm Seeds | marigold | 'Yellow Boy' |
| 'Yellow Boy' is most similar to 'Petite Yellow.' 'Yellow Boy' will bloom 3-4 days earlier and its flower heads average 9.5 mm larger in diameter than 'Petite Yellow.' | | | | |
| 76000035 | Nov. 18, 1976 | Denholm Seeds | marigold | 'Goldfinch' |
| 'Goldfinch' is larger flowered than the nearest comparison varieties 'Honeymoon' and 'Gypsy Sunshine.' Under most conditions the blooms will be 57 mm in diameter compared to 44 mm for 'Honeymoon' and 'Gypsy Sunshine.' | | | | |
| 76000063 | Nov. 18, 1976 | Asgrow Seed Company | soybean | 'A3001' |
| 'A3001' is most similar to 'Wayne' and 'Calland.' 'A3001' has purple flowers; whereas, 'Wayne' has white flowers. 'A3001' seedlings are characterized by short hypocotyls when germinated at 25° C; whereas, 'Calland' seedlings have long hypocotyls. | | | | |
| 76000067 | Nov. 18, 1976 | Asgrow Seed Company | bean | 'Cape' |
| 'Cape' most closely resembles 'Early Gallatin' but 'Cape' is resistant to curly top and 'Early Gallatin' is susceptible. 'Cape' has longer pods (14.3-15.1 cm vs. 13-13.3 cm) than 'Early Gallatin.' | | | | |
| **7300092 | Dec. 20, 1976 | Oklahoma Agricultural Experiment Station | cotton | 'Thorpe' (3) |
| 'Thorpe' is most similar to 'Paymaster 909' but 'Thorpe' has a 3/32 inch longer fiber (1.07 vs. 0.98 inches) with a 0.6 unit lower micronaire (4.2 vs. 4.8) and an earlier maturity (16.9% greater percent first harvest) than 'Paymaster 909.' | | | | |

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|--|-------------------|-------------------------------|---------------------|------------------------|
| *7500001 | Dec. 20, 1976 | North American Plant Breeders | barley | 'Lud' (3) |
| 'Lud' is most similar to 'Zephyr' but 'Lud' differs from 'Zephyr' by having stiffer straw and waxier stems and heads. 'Lud' is 100% susceptible to DDT while 'Zephyr' has a mixed reaction to DDT--40 to 60% of the plants are resistant. | | | | |
| *7500002 | Dec. 20, 1976 | North American Plant Breeders | barley | 'Georgie' (3) |
| 'Georgie' is most similar to 'Vada' but 'Georgie' is 2 inches shorter than 'Vada' and differs from 'Vada' by not having hairs on the ventral crease beneath the rachilla. The straw of 'Georgie' is considerably stronger than the straw of 'Vada' and it is more resistant to lodging. 'Georgie' is more resistant to loose smut than 'Vada.' | | | | |
| *7500003 | Dec. 20, 1976 | Turf-Seed, Inc. | perennial ryegrass | 'Citation' (3) |
| 'Citation' most closely resembles 'Pennfine.' 'Citation' differs from 'Pennfine' in that 'Citation' has significantly darker green turf color than 'Pennfine.' | | | | |
| *7500061 | Dec. 20, 1976 | Research Corporation | barley | 'Washonupana' (3) |
| 'Washonupana' is most similar to 'Compana' except 'Washonupana' is hullless, has short awns and produces more and smaller kernels per spike than 'Compana.' 'Washonupana' also differs from 'Compana' in that 'Washonupana' has a waxy endosperm and its starch retains an attached enzyme throughout the starch manufacturing process; whereas, 'Compana' does not. | | | | |
| 7600041 | Dec. 20, 1976 | V. R. Seeds, Inc. | soybean | 'Classic II' |
| 'Classic II' is most similar to 'Wayne.' 'Classic II' has purple flowers and is resistant to race 1 of phytophthora root rot; whereas, 'Wayne' has white flowers and is susceptible to race 1 of phytophthora root rot. | | | | |

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|--|-------------------|--------------------------------|---------------------|------------------------|
| **7600045 | Dec. 20, 1976 | Seed Research Associates, Inc. | wheat | '5210' (3) |
| '5210' most closely resembles 'Eagle' but '5210' is 2.6 days earlier, 5.3 inches shorter than 'Eagle' in Kansas. | | | | |
| **7600075 | Dec. 20, 1976 | North American Plant Breeders | barley | 'Summit' (3) |
| 'Summit' most closely resembles 'Lud' except 'Summit' has anthocyanin in the auricles of all nodes; whereas, in 'Lud' the anthocyanin occurs only in the auricle of the top node. 'Summit' has a slightly curved neck; whereas, while 'Lud' has a snakey neck with a "crook" occurring about 1/2 inch below the collar. Glume length is about one-half of the lemma in 'Summit'; whereas, in 'Lud' the glume is one-third the length of the lemma. | | | | |
| **7600079 | Dec. 20, 1976 | Germain's, Inc. | wheat | 'W-444' (3) |
| 'W-444' is a hard red spring wheat most similar to 'Siete Cerros,' but 'W-444' is 8 to 10 days earlier than 'Siete Cerros.' | | | | |
| **7300066 | July 19, 1976 | Borden Peanut Company, Inc. | peanut | 'Valencia McRan' (3) |

CERTIFICATE AMENDMENTS

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United States Department of Agriculture
Agricultural Marketing Service
Grain and Seed Division
Plant Variety Protection Office, Rm. 301
National Agricultural Library
Beltsville, Maryland 20705

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GENERAL INFORMATION

Regulations and Rules of Practice Amended

The regulations and rules of practice under the Plant Variety Protection Act were amended to be effective March 15, 1977.

The first of the four amendments provides an applicant who has filed for protection in a foreign country with additional time to file for U.S. protection. The time limit is extended from 4 to 5 years to align it with the 5-year period needed in other countries for "grow-out" tests, which are not used in this country under the PVPA system.

Another amendment requires that if an applicant wishes to revive an application abandoned because of failure to furnish required information, he must do so within 3 months after abandonment. The third amendment requires that two of three \$250 fees be paid when the application is filed, with a provision for a refund if the application is cancelled before search or examination work is started.

The final amendment requires that a seed sample of a minimum size be submitted at the time of application, rather than at a later date. Officials say that this will allow for earlier examination of the seed and will aid in their examination of the applicant's request for plant variety protection.

The amendments in their proposed form were first published in the Dec. 14 Federal Register with a comment period until Jan. 13. The Plant Variety Protection Office received three favorable comments, and no comment against the amendments.

New Division Name

You will note that the former "Grain Division" is now the "Grain and Seed Division." This was the result of passage of a new law by Congress creating the new Federal Grain Inspection Agency. The present Grain and Seed Division consists of the Plant Variety Protection Office, the Federal Seed Act, the National Seed Testing Standardization Laboratory, Grain Market News, Section 32 Purchases, Grain and Seed Marketing Orders, and Wheat Research and Promotion Activities. S. F. Rollin is Acting Director.